Pulsar Series UPS

Eaton EX

700/1000/1500/2200/3000 VA

Eaton EX 1500

Eaton EX Rack/Tower versatility

Ideal protection for:

- Servers, data storage and network equipment
- Telephony VoIP
- · Medical equipment Industrial processes

Double conversion (on-line)

Maximum availability

- Topology: double conversion on-line UPS with automatic by-pass and power factor correction
- Powershare: the Eaton EX output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard
- Continuous power supply: Hot swappable batteries.
 The HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply
- Long backup times: 1 to 4 EXB battery units can be added to the Eaton EX. The Eaton EX 3000XL has a built-in super charger for extra long backup times

Minimum total cost of ownership

- Easy operation: the LCD gives you access to a wide range of measurements and set-up menus
- Remote supervision: the Eaton software suite offers a wide range of communication option including: SNMP and HTML, ModBus/JBus and relay outputs

Total flexibility

Eaton EX has unmatched Flexibility.

- Format: EX 700 to 1500 are available in tower format or RT2U convertible rack/tower format (compatible with short-depth rack). EX 2200 & 3000 are available in RT2U format (optimised for rack mounting) or RT3U (for tower or short-depth racks)
- Connections: with FlexPDU and HotSwap MBP, the RT2U and RT3U models can be connected by sockets or terminal blocks. They can be installed as required, on the side or on top of the unit
- Compatible with high power factor loads: Eaton EX is rated for 0.9 power factor (700 VA/630 W, 1000 VA/900 W, 1500 VA/1350 W, 2200 VA/1980 W and 3000 VA/2700 W)
- Communication: the EX includes both serial and USB ports, plus remote On/Off connector and an extra slot for optional communication cards. The UPS comes with a complete Eaton software suite.



Eaton EX UPS

700/1000/1500/2200/3000 VA

- 1 LCD Multilingual display
 - 6 languages,
 - displays measurements,
- displays alarms,
- access to control and set-up menus.
- 2 Panel for batteries replacement (Hot swappable)

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- inputs.

 4 EXB battery unit connector.
- EXB battery unit connector.
- 5 EXB units recognised automatically.
- 6 8 IEC 10A sockets, including 4 Powershare programmable sockets and 1 IEC 16A socket.

3 1 USB port + 1 serial port + remote ON/OFF and emergency stop

7 Communication card slot.

8 Mountings for HotSwap MBP and FlexPDU.



Eaton EX RT

Technical Specifications	700	1000 - 1000 RT2U	1500 - 1500 RT2U	2200	3000 - 3000 XL		
ating (VA/W)	700 VA / 630 W	1000 VA / 900 W (1)	1500 VA / 1350 W ⁽¹⁾	2200 VA / 1980 W	3000 VA / 2700 W (1)		
rmat	Mini tower	Mini tower or RT2U (tower/rack 2U)			nd RT3U (tower / rack 3U)		
lectrical characteristics							
chitecture		On-line double conve	rsion with automatic by-pass and pov	ver factor correction			
put voltage and frequency ranges without using batteries	100/	120/140/160 V ⁽²⁾ to 284V - 40 to	70 Hz	100/120/160/184 V ⁽²⁾ to 284V - 40 to 70 Hz			
utput voltage and frequency	230 V (adjustable to 200/208/220/240/250 V), 50/60 Hz auto-select or frequency			230 V (adjustable to 200/208/220/240 V),			
		converter mode ⁽³⁾			50/60 Hz auto-select or frequency converter mode		
onnections							
pput	1 IEC C14 (10A) socket			1 IEC C20 (16A) or terminal block on HotSwap MBP HW (Hard-Wired)			
lutputs	6 IEC C13 (10A) sockets			8 IEC C13 (10A) sockets + 1 IEC C19 (16A) socket			
lemotely controlled Powershare sockets	2 independent groups: 2 + 1 IEC C13 (10A) sockets 2 groups of 2 x IEC C13 (10A) on Eaton EX						
dditional outputs with HotSwap MBP FR/DIN/BS/IEC/HW	4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or terminal blocks (HW version)						
dditional outputs with FlexPDU FR/DIN/BS/IEC	8 FR/Schuko sockets or 6 BS sockets or 12 IEC 10A sockets						
Battery							
ypical backup times for 50 and 70% load (6) except for Ea	ton EX 3000 XL (5)						
X	16 min / 10 min	18 min / 12 min	13 min / 9 min	17 min / 12 min	15 min / 10 min		
X + 1 EXB	1	75 min / 50 min	50 min / 35 min	85 min / 60 min	60 min / 40 min		
X + 4 EXB	1	250 min / 200 min	180 min / 120 min	285 min / 200 min	190 min / 150 min		
attery management	Automatic weekly test (period adjustable using LCD display or in software supplied), automatic recognition of external battery units => continuous maximisation of backup time + deep discharge protection						
nterfaces							
ndicators and display	3 LEDS + adjustable multilingual display: display of measurements, access to control and set-up menus						
ommunication ports	1 USB port + 1 RS232 serial port and relay contacts (4) + 1 mini terminal block for remote ON/OFF and emergency stop						
ommunications card slots		1 slot for NMC Minislot card (incli	uded in Netpack version) or NMC Mo	dBus/JBus or MC Contacts/Serial			
Operating conditions, standards and app	provals						
Operating temperature noise level	0°C to 40°C continuous, 45 dBA						
Performance - Safety - EMC	IEC/EN 62 040-3 (VFI-SS-113), IEC/EN 62 040-1-1, IEC/EN 60 950-1 (RD), IEC/EN 62 040-2 C1 Class						
Approvals		CE, TūV GS, CB report, cTūV-US		CE, TüV, CB Report, UL	CE, TüV, CB Report, U		
Dimensions (H x W x D) / Weight							
X	242 x 153 x 440 mm / 12.5 kg	242 x 153 x 440 mm / 15 kg	242 x 153 x 490 mm / 18 kg	440 x 131 x 490 mm ⁽⁷⁾ / 30 kg (3000 XL = 18 kg)			
X RT2U	1	86.5 x 438 x 483 mm / 18 kg	86.5 x 438 x 483 mm / 20.5 kg	86 x 440 x 640 mm / 31 kg			
X EXB		/ 242 x 153 x 440 mm / 21 kg		440 x 131 x 490 mm ⁽⁷⁾			
X EXB RT2U			83 mm / 24.5 kg	1	1		
Customer Service & Support							
years warranty		Stand	ard product exchange, including the ba	tterv			
	Optional 3-years warranty (depending on the country please visit www.eaton.com/powerquality)						

1: Maximum rating with EXB battery units: Eaton EX 1000 = 800 W, Eaton EX 1500 = 1200 W and Eaton EX 3000 = 2400W. 2: Lower limits for <20%, <33%, <66%, >=66% of nominal power (VA). For active output power greater than 0.7 and 0.8 nominal rating, the lower limit is 180V and 190V respectively. 3: Derated by 15% when used as a frequency converter. 4: USB and RS232 serial ports cannot be used simultaneously. 5: Except Eaton EX 3000 XL: UPS with high speed charger, without built-in batteries, for custom configurations: ask us for details. 6: Runtimes are shown at 0.7 power factor. Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc. 7: compatible with 600 mm deep rack

Part Numbers	700	1000	1500	2200	3000
EX	68 180	68 181	68 183	68 400	68 402 - XL: 68 404
EX RT2U (includes rack kit)	1	68 182	68 184	68 401	68 403
EX RT3U HotSwap. (includes rack kit + HotSwap MBP)	I	1	1	FR: 68406 DIN: 68407 BS: 68408 IEC: 68409 HW: 68410	FR: 68412 DIN: 68413 BS: 68414 IEC: 68415 HW: 68416
EX RT2U Netpack (includes rack kit and NMC card)		1	1	68 411	68 417
EX EXB	1	68 185	68 185	68 405	68 405
EX EXB (includes rack kit)RT2U	1	68 186	68 186	1	1
EX Rack Kit 2U/3U	1	1	1	68 441	68 441

